Index of Claims

| App | licatio | n/Co | ntrol | No. |
|-----|---------|------|-------|-----|
|     |         |      |       |     |

Applicant(s)/Patent under Reexamination

10/790,184

Examiner

OSHIMA ET AL. Art Unit

Michael B. Shingleton

2817

Rejected Allowed

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| Α | Appeal   |
|---|----------|
| o | Objected |

|  |  | Ц.       |          |              |          |            | ,        |              | ш        |          |  |
|--|--|----------|----------|--------------|----------|------------|----------|--------------|----------|----------|--|
| Cla  | im   | Date     |          |              |          |            |          |              |          |          |  |
| Final  | 1 Original   | 2000     |          |              |          |            | Ī        |              |          |          |  |
| <u> </u>   | 1  | <b>P</b> | -        | H            | -        | -          | _        | -            | _        | <u> </u> |  |
| -  | -  | -        |          | ├            | ├-       | ┢          | ┢─       | -            | ┝        | ┝        |  |
|  | 3  | 1        | -        | ┢╌           | -        | -          | -        | ┢            | -        | ├─       |  |
| $\vdash$   | 4  | H        |          | $\vdash$     |          |            |          | $\vdash$     |          | $\vdash$ |  |
|  | 5  | H        | Г        |              |          |            |          |              | ┢        | H        |  |
|  | 6  |          | _        | -            | ı        |            |          |              | T        | $\vdash$ |  |
|  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8               |          |          |              |          |            |          |              |          |          |  |
|  | 8  |          |          |              |          |            |          |              |          |          |  |
|  | 9  | Ш        | _        | L            |          |            |          | _            | _        |          |  |
|  | 10   | =        | _        |              |          |            | <u> </u> | <u> </u>     | <u> </u> | _        |  |
|  | 11   | _        |          | <u> </u>     | <u> </u> | <u> </u> _ | <u> </u> |              | <u> </u> | <u> </u> |  |
|  | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | <b> </b> | <u> </u> | _            | _        | _          | <u> </u> | $\vdash$     | _        | $\vdash$ |  |
|  | 13   | ٠.       | <u> </u> | $\vdash$     |          | $\vdash$   | _        | $\vdash$     |          | $\vdash$ |  |
|  | 15   | $\vdash$ | ⊢        | ⊬            | -        | <u> </u>   | ⊢        | -            | H        | $\vdash$ |  |
|  | 16   | -        | -        | $\vdash$     | -        | -          | $\vdash$ | -            |          | $\vdash$ |  |
| <del>                                     </del> | 17   |          |          |              |          |            |          |              |          | H        |  |
|  | 18   |          | -        |              |          |            | $\vdash$ |              |          |          |  |
|  | 19   | _        |          | 1            |          |            |          |              |          |          |  |
|  | 20   |          |          | ┢            |          |            |          |              |          |          |  |
|  | 21   |          |          |              |          |            |          |              |          |          |  |
|  | 22   |          | Г        |              |          |            |          |              |          |          |  |
|  | 21<br>22<br>23                                     |          |          |              |          |            |          |              |          |          |  |
|  | 24   |          |          |              |          |            |          |              |          |          |  |
|  | 25   |          | L        |              |          |            |          | L            |          |          |  |
|  | 24<br>25<br>26<br>27<br>28                         |          |          |              |          | L          |          | <u> </u>     |          |          |  |
|  | 27   |          | L        | _            | _        | _          | _        | _            |          | _        |  |
|  | 28   | _        | <u> </u> | <u> </u>     |          |            |          |              |          |          |  |
|  | 29   |          | <u> </u> | <del> </del> |          | -          | _        | _            | _        | _        |  |
|  | 30<br>31   |          |          | -            |          | <u> </u>   |          | -            |          | _        |  |
| _  | 32   | $\vdash$ | ┝        | -            | -        | ┝          | -        |              |          | _        |  |
|  | 33   |          | ┝        | -            | -        |            | _        | -            | _        | _        |  |
| $\vdash$   | 34   | $\vdash$ | -        | Ι-           | -        | -          | -        |              | $\vdash$ | $\vdash$ |  |
|  | 35   | $\vdash$ | $\vdash$ | $\vdash$     | _        |            | _        |              | $\vdash$ | Н        |  |
|  | 36   |          | $\vdash$ | $\vdash$     | _        | _          | Ι        |              |          |          |  |
|  | 37   |          | Г        | Г            | Г        |            | Г        |              |          |          |  |
|  | 38   |          |          |              |          |            |          |              |          |          |  |
|  | 39   |          |          |              |          |            |          |              |          |          |  |
|  | 40   |          | Ľ        | L            |          |            |          |              |          |          |  |
| $oxed{oxed}$                                     | 41   |          |          |              | Ш        | _          |          |              |          |          |  |
|  | 42   |          | <u> </u> | <u> </u>     | _        | _          | _        | $\vdash$     | _        | Ш        |  |
|  | 43   |          | <u> </u> | <u> </u>     | _        |            |          | $\vdash$     |          |          |  |
| <u> </u>   | 44   | $\vdash$ | _        | $\vdash$     | H        |            | $\vdash$ | -            |          | $\dashv$ |  |
| <del>  </del>                                    | 45<br>46   | -        |          | $\vdash$     | H        |            |          | $\vdash$     | $\vdash$ | H        |  |
|  | 47   |          | _        | <del> </del> | $\vdash$ | $\vdash$   | H        | $\vdash$     | _        | $\vdash$ |  |
| $\vdash$   | 48   | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | -          |          | $\vdash$     | -        | $\vdash$ |  |
|  | 49   | H        | $\vdash$ | $\vdash$     | H        |            | H        | $\vdash$     | $\vdash$ | $\vdash$ |  |
| <b></b>  | 50   | -        | -        | $\vdash$     |          | $\vdash$   | $\vdash$ | <del> </del> | -        | $\vdash$ |  |

| Clai     | m           |            |              |          |          | Dat      | e            |  |              |          | ] [ | Cla   | aim      |          |        |     |              | Date | e        |          |          |          |   |   |
|----------|-------------|------------|--------------|----------|----------|----------|--------------|--|--------------|----------|-----|-------|----------|----------|--------|-----|--------------|------|----------|----------|----------|----------|---|---|
|          | Original    | 1) Broknor |              |          |          |          |              |  |              |          |     | Final | Original |          |        |     |              |      |          |          |          |          |   |   |
| $\top$   | 1           | =          |              |          |          |          |              |  |              |          |     |       | 51       |          |        | _   |              |      |          |          |          |          |   | L |
|          | 2           | ,          |              |          |          |          |              |  |              |          |     |       | 52       |          |        |     |              |      |          |          |          |          |   | Ĺ |
|          | 3           | Ш          | <u> </u>     |          |          |          |              | _  | <u> </u>     | 匚        | ]   |       | 53       | Ш        |        | L., |              |      |          |          | _        |          |   | L |
|          | 3<br>4<br>5 | Ш          | L            | <u> </u> | _        |          | 1            |  |              |          | ↓   |       | 54       |          |        |     |              |      | L        | <u> </u> | L.       |          |   | L |
| $\perp$  | _5          | Ш          | L            | <u> </u> | _        | _        | _            | _  | L            | <u> </u> | .   |       | 55       | Ш        |        |     | <u> </u>     |      |          |          | <u> </u> |          | l | L |
| 4        | 6<br>7      | Ш          | <u> </u>     | <u> </u> | <u> </u> |          | <u></u>      | L  | L            | L        | .   |       | 56       |          |        |     | $oxed{oxed}$ |      |          |          |          |          | l | L |
| 4        |             | 1          | _            |          | _        |          | _            | _  | L            | <u> </u> |     |       | 57       |          |        |     | <u> </u>     |      | _        |          |          |          | Į | L |
| -        | 8           | ₩.         | <u> </u>     | _        | _        | -        | L            | _  | _            | _        | 1   |       | 58       |          |        |     |              |      | L.       | <u> </u> | ļ        |          |   | L |
| -        | 9<br>10     | $\mu_{-}$  | ⊢            | -        | _        | ⊢        | -            | <u> </u>   | <u> </u>     | ⊢        | 1   |       | 59       | $\vdash$ |        | -   | _            |      | <u> </u> | _        | <u> </u> | _        |   | F |
| +        | 10          | 1          | ⊢            | -        |          | -        | ⊢            |  | <del> </del> | <b> </b> | {   |       | 60       |          |        | _   | _            |      |          | _        | <u> </u> |          |   | F |
| +        | 11          |            | -            | -        |          |          | <del> </del> |  | -            | -        |     |       | 61       | $\dashv$ |        |     | _            | _    |          | _        | H        |          |   | ŀ |
|          | 12<br>13    |            | -            |          |          | -        | ⊢            | ⊢  | -            | $\vdash$ | {   |       | 62<br>63 | -        |        |     |              |      |          | ⊢        | $\vdash$ |          |   | ŀ |
|          | 14          | -          | -            | ├        |          | $\vdash$ | H            |  | H            | $\vdash$ |     |       | 64       | $\dashv$ |        |     | $\vdash$     |      |          | ┝        | H        | H        |   | ŀ |
| +        | 15          | _          | $\vdash$     | ┝        | _        | $\vdash$ | ⊢            | -  | H            | ⊢        | 1   |       | 65       | $\dashv$ |        |     |              |      | -        | -        | -        | _        |   | H |
| -        | 16          | -          | -            | $\vdash$ |          | _        | ┢            |  |              | $\vdash$ | 1 1 |       | 66       | $\dashv$ |        |     |              |      | _        | ┢        |          | Н        |   | H |
| +        | 17          | _          |              |          |          |          |              |  |              |          | 1   |       | 67       |          |        | -   |              |      | _        | ┢        |          |          |   | H |
| +        | 18          | _          | -            |          |          |          |              |  |              |          | 1 1 |       | 68       |          |        |     | -            |      | _        | $\vdash$ | $\vdash$ | Н        |   | H |
| _        | 19          | _          |              | 一        |          |          |              |  |              |          | 1 1 |       | 69       |          |        |     |              |      | -        | _        |          | Н        |   | r |
| $\dashv$ | 20          | -          |              | $\vdash$ |          |          |              |  |              |          | 1 1 |       | 70       |          |        |     |              | _    |          | 一        |          |          | l | H |
| ┪        | 21          |            |              |          |          |          |              |  |              |          | 1   |       | 71       |          |        |     |              |      |          | _        |          |          | l | r |
|          | 22          |            | $\vdash$     |          |          |          |              |  |              |          | 1   |       | 72       |          |        |     |              |      |          |          |          |          |   | r |
| T        | 23          |            |              |          |          |          |              |  |              |          | 1   |       | 73       |          |        |     |              |      |          | -        |          |          |   | r |
| Ì        | 24          |            |              |          |          |          |              |  |              |          | 1 1 |       | 74       |          |        |     |              |      |          |          |          |          |   | r |
|          | 25          |            |              |          |          |          |              |  |              |          | 1   |       | 75       |          |        |     |              |      |          |          |          |          |   | Γ |
|          | 26<br>27    |            |              |          |          |          |              |  |              |          | 1   |       | 76       |          |        |     |              |      |          |          |          |          |   | Γ |
|          | 27          |            |              |          |          |          |              |  |              |          | ] [ |       | 77       |          |        |     |              |      |          |          |          |          |   | Γ |
|          | 28          |            |              |          |          |          |              |  |              |          |     |       | 78       |          |        |     |              |      |          |          |          |          |   | Г |
|          | 29          |            |              |          |          |          |              |  |              |          | ] [ |       | 79       |          |        |     |              |      |          |          |          |          |   | Ľ |
|          | 30          |            | L_           |          |          | <u> </u> |              |  |              | L        |     |       | 80       |          |        |     |              |      |          |          |          |          |   | L |
|          | 31          |            | L            |          |          | <u></u>  |              |  |              | L        |     |       | 81       |          |        |     |              |      |          |          |          |          |   | L |
| _ .      | 32          |            | L_           | _        |          | <u> </u> | _            | _  | _            |          |     |       | 82_      |          |        |     |              |      |          |          |          |          |   | L |
| _        | 33          |            |              | _        | <u> </u> | <u> </u> | _            |  | _            | <u> </u> |     |       | 83       | -        | _      |     |              |      |          |          |          | $\dashv$ | l | L |
| -        | 34<br>35    |            | <u> </u>     | _        |          | <u> </u> |              |  | _            | <u> </u> |     |       | 84       | _        |        |     |              |      |          |          |          |          |   | L |
| -        | 35          |            | <u> </u>     | _        |          | <u> </u> |              | <u> </u>   |              | _        |     |       | 85       | _        |        |     | -            |      |          | <u> </u> |          |          |   | L |
|          | 36          |            | <del> </del> | _        |          | -        | <u> </u>     | <u> </u>   | _            | ┝        |     |       | 86       | -        |        |     |              |      |          | _        |          |          |   | H |
| - -      | 37          |            | <u> </u>     | _        | _        | ├        | <u> </u>     | ⊢  | $\vdash$     | ┡        |     |       | 87       | $\dashv$ | _      | _   | _            | _    |          |          |          |          |   | H |
|          | 38<br>39    |            | ┝            | -        | _        | -        | -            | ⊢  | -            | ├        | { } |       | 88<br>89 | $\dashv$ | -      |     |              |      |          | -        |          | $\dashv$ |   | H |
|          | 40          |            | -            | -        | -        | -        | _            | -  | -            | $\vdash$ |     |       | 90       |          | _      |     | -            |      | -        | _        | -        | $\dashv$ |   | H |
|          | 41          |            | H            |          | -        |          | -            | -  | -            | -        |     |       | 91       | $\dashv$ |        |     |              |      |          |          |          |          |   | H |
|          | 42          |            | -            |          |          | ┝        |              |  | -            | -        |     |       | 92       | $\neg$   |        |     | -            |      |          | _        |          | -        | l | ┝ |
|          | 43          |            | -            | $\vdash$ | _        | $\vdash$ |              | $\vdash$   | $\vdash$     | $\vdash$ | 1   |       | 93       |          | _      |     | _            |      |          |          | _        | -        | ŀ | r |
|          | 44          |            | _            |          |          | _        | $\vdash$     | $\vdash$   | _            | ┢        |     |       | 94       | $\dashv$ | _      |     |              |      | _        |          |          | $\dashv$ |   | H |
|          | 45          |            | $\vdash$     | Г        |          | _        | $\vdash$     | <del>                                     </del> |              | $\vdash$ | 1   |       | 95       | _        | $\neg$ |     |              |      |          | $\vdash$ | $\vdash$ | =        |   | ۲ |
|          | 46          |            |              |          |          |          |              |  | П            |          |     |       | 96       |          |        |     |              |      |          | $\Box$   |          |          |   | r |
|          | 47          |            |              |          |          | П        |              | П  |              |          |     |       | 97       | $\neg$   |        |     |              |      |          |          |          |          |   | ۲ |
|          | 48          |            |              |          |          |          |              |  |              |          |     |       | 98       |          |        |     |              |      |          |          |          |          |   | Γ |
|          | 49          | _          |              |          |          |          |              |  |              |          | ] [ |       | 99       |          |        |     |              |      |          |          |          |          |   | Γ |
| $\perp$  | 50          |            | L            | L        |          |          | L            |  |              |          | ] [ |       | 100      |          |        |     |              |      |          |          |          |          |   |   |
|          |             |            |              |          |          |          |              |  |              |          |     |       |          |          |        |     |              |      |          |          |          |          |   |   |

| CI   | aim  | Date   |          |              |  |  |              |              |  |          |  |
|--|--|--|----------|--------------|--|--|--------------|--------------|--|----------|--|
|  | 1  |  |          | Γ            |  | Г  | Π            | Γ            | П  | П        |  |
| ō  | Original   |  |          |              |  |  |              |              |  |          |  |
| Finaf  | . <u>ē</u>   |  | l        |              |  | 1  | ı            |              |  |          |  |
|  | 0  |  | l        |              |  |  |              |              |  |          |  |
|  | 101  | _  | T        | $\vdash$     | Т  | ┢  | 一            | $\vdash$     | <del>                                     </del> | $\vdash$ |  |
|  | 101<br>102   |  | $\vdash$ | $\vdash$     | -  | -  | -            | $\vdash$     | ┢  | Н        |  |
|  | 103  | $\vdash$   | $\vdash$ | $\vdash$     |  | -  | _            | -            | ┢  | Н        |  |
|  | 103<br>104<br>105                                    | $\vdash$   |          | $\vdash$     |  |  | _            | -            | _  | -        |  |
|  | 105  | $\vdash$   | _        | _            | $\vdash$   | $\vdash$   | $\vdash$     | <u> </u>     | $\vdash$   | Н        |  |
|  | 106  | ┢  | $\vdash$ | _            | H  | $\vdash$   |              |              | $\vdash$   |          |  |
| _  | 106<br>107   | $\vdash$   | H        | $\vdash$     | H  | H  |              | -            | -  |          |  |
|  | 108  | <del>                                     </del> | -        |              |  |  |              |              | -  | Н        |  |
|  | 109  | -  | _        | $\vdash$     | $\vdash$   | $\vdash$   | _            | _            | _  |          |  |
|  | 110  | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$   | -            | -            | $\vdash$   | Н        |  |
|  | 111  | $\vdash$   | $\vdash$ | $\vdash$     | ┢  | 一  | <del> </del> | _            |  | Н        |  |
|  | 112  | $\vdash$   | $\vdash$ | $\vdash$     | <del>                                     </del> | <del>                                     </del> | ┢            | $\vdash$     | $\vdash$   | H        |  |
|  | 113  | _  | -        | <del> </del> | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$     | $\vdash$   | Н        |  |
| <del>                                     </del> | 114  | -  | -        | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$     | $\vdash$     | Ι  | $\vdash$ |  |
|  | 115  | -  | ⊢        | $\vdash$     | $\vdash$   | $\vdash$   | -            |              |  | Н        |  |
| -  | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116 | -  | $\vdash$ | $\vdash$     | -  | ┢  | -            | <del> </del> | ┢  | Н        |  |
|  | 117  | ⊢  | $\vdash$ | $\vdash$     | $\vdash$   | -  | -            | ┝            | -  | $\vdash$ |  |
|  | 117<br>118<br>119<br>120<br>121                      | $\vdash$   | ├        | $\vdash$     | $\vdash$   | -  | ┝            | -            | -  |          |  |
|  | 110  | _  | ┝        | -            | <del> </del>                                     |  |              | ┝            | -  | $\dashv$ |  |
|  | 119  |  | ⊢        | -            | -  | <u> </u>   |              | <b>-</b> -   | -  | Н        |  |
|  | 120  |  |          | _            |  | _  |              |              | $\vdash$   | Н        |  |
|  | 121  |  |          |              | _  | _  | H            | H            | H  | Н        |  |
| <u> </u>   | 122<br>123<br>124                                    |  | -        | _            | <u> </u>   | _  | ⊢            | _            | <u> </u>   | Н        |  |
|  | 123  | _  | _        | <u> </u>     | ļ  |  | _            |              | _  | Щ        |  |
| <u> </u>   | 124  |  | _        | _            | _  |  | ┝            | ⊢            | _  | Н        |  |
|  | 125<br>126<br>127<br>128<br>129<br>130<br>131<br>132 |  |          | <u> </u>     | -  | -  | <u> </u>     | <u> </u>     | <u> </u>   |          |  |
| _  | 126  |  |          | <u> </u>     |  | _  |              | _            | _  | Н        |  |
|  | 127  |  | _        |              | -  |  |              |              | <u> </u>   | Н        |  |
|  | 128  |  |          |              | Щ  |  | <u> </u>     |              | <u> </u>   | Щ        |  |
|  | 129  | _  |          |              | L  |  | L            |              | _  | Щ        |  |
| <u> </u>   | 130  |  |          |              | _  | _  | _            | _            | _  | Щ        |  |
| <u> </u>   | 131  |  | _        |              | _  |  | _            |              | _  | Ц        |  |
|  | 132  |  |          |              | _  |  | _            | _            | <u>_</u>   | Ц        |  |
|  | 133<br>134<br>135                                    |  |          |              |  | _  | <u> </u>     | _            | _  | Щ        |  |
| <b> </b>   | 134  |  | <b> </b> | <u> </u>     | L_   | _  | <u> </u>     | $\vdash$     |  | Щ        |  |
|  | 135  |  |          | <u> </u>     |  | _  | <u> </u>     |              | <u> </u>   | Щ        |  |
|  | 136<br>137<br>138                                    |  | _        | L            | Ш  | $\sqcup$   | <u> </u>     | Щ            | _  | Щ        |  |
|  | 137  |  | _        | L.           | Ш  |  | <u> </u>     | L.           | _  | Щ        |  |
|  | 138  |  | L_       | L            |  | _  | <u> </u>     |              | _  | Щ        |  |
|  | 139<br>140   | _  |          | L_           |  |  |              |              |  | Щ        |  |
|  |  |  | <u> </u> | <u> </u>     |  |  |              | L            | <u> </u>   | Щ        |  |
|  | 141  |  | L        | <u> </u>     | _  |  | _            | L            | _  | Ш        |  |
|  | 142  |  |          |              | _  |  | <u> </u>     |              |  |          |  |
|  | 143  |  | L_       | <u> </u>     |  |  |              |              | <u> </u>   | Ш        |  |
|  | 144  |  | _        | <u> </u>     |  |  | _            |              | _  |          |  |
|  | 145  |  |          | <u></u>      |  |  |              |              |  |          |  |
|  | 146  |  |          |              |  |  | _            |              |  |          |  |
|  | 147  |  |          |              |  |  | $\Box$       |              |  |          |  |
|  | 148  |  |          | L            |  |  |              |              |  |          |  |
|  | 149  |  |          |              |  |  |              |              |  |          |  |
|  | 150  |  |          |              |  |  |              |              |  |          |  |